REPORT ON THE RESEARCH UNIT:
Neurodevelopmental and Neurovascular Disorders (NeuroDiderot)

UNDER THE SUPERVISION OF THE FOLLOWING INSTITUTIONS AND RESEARCH BODIES:
Université Paris Diderot
Institut National de la Santé et de la Recherche Médicale – INSERM
Centre National de la Recherche Scientifique - CNRS
Commissariat à l’énergie atomique et aux énergies alternatives – CEA
Université Paris 13

EVALUATION CAMPAIGN 2017-2018
GROUP D
In the name of Hcéres¹:
Michel Cosnard, President

In the name of the expert committee²:
Alfonso Represa, Chairman of the committee

Under the decree No.2014-1365 dated 14 November 2014,
¹ The president of Hcéres “countersigns the evaluation reports set up by the expert committees and signed by their chairman.” (Article 8, paragraph 5);
² The evaluation reports “are signed by the chairman of the expert committee”. (Article 11, paragraph 2).
This report is the sole result of the unit’s evaluation by the expert committee, the composition of which is specified below. The assessments contained herein are the expression of an independent and collegial reviewing by the committee.

UNIT PRESENTATION

Unit name: Neurodevelopmental and Neurovascular Disorders
Unit acronym: NeuroDiderot
Requested label: UMR
Application type: Restructuration
Current number: 1141
Head of the unit (2017-2018): Mr Pierre GRESSENS
Project leader (2019-2023): Mr Pierre GRESSENS
Number of teams or themes: 5

COMMITTEE MEMBERS

Chair: Mr Alfonso REPRESA, Institut de neurobiologie de la méditerranée

Experts: Mr Gilbert BAILLAT, Institut de Neurosciences de la Timone (supporting personnel)
Mr Maxime GUYE, CRMBM, Aix Marseille Université
Mr Massimo PANDOLFO, Hopital Erasmus, Bruxelles, Belgium
Ms Florence PASQUIER, CHRU de Lille, (representative of INSERM CSS)
Mr François RASSENDRENN, Institut de Génomique Fonctionnelle, Montpellier (representative of CoNRS)
Ms Annamaria VEZZANI, Istituto Mario Negri-Milano, Italy

HCERES scientific officer:
Mr Jacques NOËL

Representatives of supervising institutions and bodies:
Mr Étienne HIRSCH, Inserm
Mr Vincent MOULY, Université Pierre and Marie Curie
Mr Bernard POULAIN, CNRS
INTRODUCTION

HISTORY AND GEOGRAPHICAL LOCATION OF THE UNIT

NeuroDiderot proposes the fusion of three previously independent units: 1) UMR 1141 (Neuroprotection of the developing brain) directed by Mr Pierre Gressens and localized at Robert Debré Hospital; 2) UMR 1161 (Genetics and pathophysiology of neurovascular disorders) directed by Ms Elisabeth Tournier-Lasserve, and localized on Diderot Medical school, Villemin campus; 3) UMR 1129 (Childhood epilepsies and cerebral plasticity); directed by Ms Catherine Chiron localized at Necker Hospital and NeuroSpin and the SHFJ of the CEA.

NeuroDiderot (Neurodevelopment and neurovascular disorders) unit will be a neuroscience center affiliated to Université Paris 7 and INSERM. It will be located at Robert-Debré hospital in Paris (France). Part of the activities will be located at Neurospin (CEA, Saclay, Gif-sur-Yvette, France) and Necker Enfants malades hospital (Paris, France).

MANAGEMENT TEAM

NeuroDiderot will be directed by Mr Pierre Gressens.

HCERES NOMENCLATURE

SVE4_1 Neurologie.

SCIENTIFIC DOMAIN

NeuroDiderot scientific domains involve Neurosciences (mainly brain development) and neural disorders (neurodevelopmental and neurovascular disorders). Subdomains include neurobiology, neuropsychiatry, neuroanatomy, neurophysiology, neuropharmacology, neuroimaging, cognitive neuroscience, neurogenetics.

UNIT WORKFORCE

<table>
<thead>
<tr>
<th>Unit workforce</th>
<th>Number 30/06/2017</th>
<th>Number 01/01/2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permanent staff</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Full professors and similar positions</td>
<td>21</td>
<td>25</td>
</tr>
<tr>
<td>Assistant professors and similar positions</td>
<td>14</td>
<td>21</td>
</tr>
<tr>
<td>Full time research directors (Directeurs de recherche) and similar positions</td>
<td>6</td>
<td>9</td>
</tr>
<tr>
<td>Full time research associates (Chargés de recherche) and similar positions</td>
<td>13</td>
<td>13</td>
</tr>
<tr>
<td>Other scientists (&quot;Conservateurs, cadres scientifiques des EPIC, fondations, industries, etc.&quot;)</td>
<td>0</td>
<td>10</td>
</tr>
<tr>
<td>High school teachers</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
Supporting personnel (ITAs, BIATSSs and others, notably of EPICs) 36 32

TOTAL permanent staff 92 110

Non-permanent staff
Non-permanent professors and associate professors, including emeritus 0
Non-permanent full time scientists, including emeritus, post-docs 7
Non-permanent supporting personnel 4
PhD Students 24

TOTAL non-permanent staff 17

TOTAL unit 109

GLOBAL ASSESSMENT OF THE UNIT

Output of teams involved in NeuroDiderot over the review period is highly impressive in terms of number of publications, impact of journals and number of citations. In addition, the valorization activity was completed through licenses securing and R&D contracts with industry and the creation of 2 start-ups. NeuroDiderot has an extraordinary translational potential to clinical practice facilitated by the location of the unit at Robert Debré Hospital, the presence of clinicians (PHs, MCU-PHs and PU-PHs) in the different teams and the multiple collaboration with clinical units. This exceptional feature is well reflected in the scientific projects of the unit, combining clinical and basic science research, and also in the publications and the contribution to databases and cohorts. It is important to highlight the participation of the unit to two DHUs (Départements Hospitalo-Universitaires; the director of the unit is coordinator of DHU PROTECT) and the coordination of a RHU (Recherche Hospitalo-Universitaire; Programme Investissement d’Avenir) by one of the PIs. The merging will strengthen the national and international visibility of the unit and will facilitate the development of new integrated projects that will benefit from the synergy of the three previous units, but the resulting unit will face the need for integrating the activities of new teams and improving internal collaborations.
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Evaluation of higher education and research institutions
Evaluation of research
Evaluation of doctoral schools
Evaluation of programmes
International evaluation and accreditation